

Welcome
Who We Are
What We Do
Resources
How We Work
Where We Are Going
How We Meet Our Customers' Needs

United States Army

Redstone Technical Test Center (RTTC)





What We Do

Electro-Optics Sensors and Subsystems (Lab Testing)

RTTC's "world class" Electro-Optics laboratory test capabilities provide state-of-the-art facilities and resources for performing First Article Tests (FATs); Pre-Production Qualification Tests (PPQTs); Performance, Reliability, and Verification Tests (PRVTs); Stockpile Reliability Tests; Periodic Production Inspections (PPIs); and Engineering Evaluation and Exploitation. All Electro-Optical (EO) spectrums are covered within UV, visible, near Infrared (IR), mid-wave IR, and long-wave IR wavebands for imaging and nonimaging applications.

Primary Services and Capabilities

- Missile seeker testing
- Reconnaissance sensor testing
- Surveillance sensor testing
- Target acquisition sensor testing
- Laser rangefinder and designator testing
- Hardware-in-the-Loop (HWIL) Testing
- Electronics testing
- Modeling and Simulation (M&S)
- All-up-round test sets
- Lens, mirrors, and optical component tests
- Laser damage threshold tests

Overview

Primary Services & Capabilities

Test Management Services

Supplemental Services

Web Site Map/Navigation Outline

Doing Business With RTTC

Employment Information

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Keyword/Key Phrase Search

Links to Related Sites

Acknowledgement

Hi Perf. Computing Distributed Center

Request Test Services

Home



Dynamic IR Scene Projector (DIRSP)



EO Sensor Flight Evaluation Lab (EOSFEL)



Scene generation monitors (VPG)



Multi-Axis Motion
Simulator
(MAMS)



EO Counter-
Countermeasure
Station



TOW ITAS Test
Station

Supplementary Services

- Design and fabricate specialized test instrumentation
- Platform/missile/target acquisition system intraoperability
- All labs have the capability of distributed testing across a fiber optic network such as the Defense Research & Engineering Network (DREN)
- Functional test set design and fabrication

Specialized Facilities and Equipment

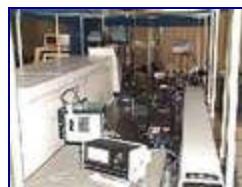
- EO Reconnaissance, Surveillance, and Target Acquisition (RSTA) sensor evaluation labs
- EO seeker/guidance section evaluation labs
- Automated Laser Instrumentation and Measurement System (ALIMS)
- Dynamic Infrared Scene Projection (DIRSP) systems
- IR Scene Projector (IRSP)
- Dynamic visible scene projection technology
- Missile and target simulators
- Real-time EO/IR scene generation and image processing with High Performance Computer (HPC)
- Library of real and synthetic Virtual Proving Ground (VPG) Tools
- Electro-Optical Counter-Countermeasure (EOCCM) station
- Extreme temperature conditioning capabilities
- Multi-Spectral Facilities
- Mobile Infrared Scene Projector (MIRSP)



Automated Laser
Instrumentation
Measurement
System

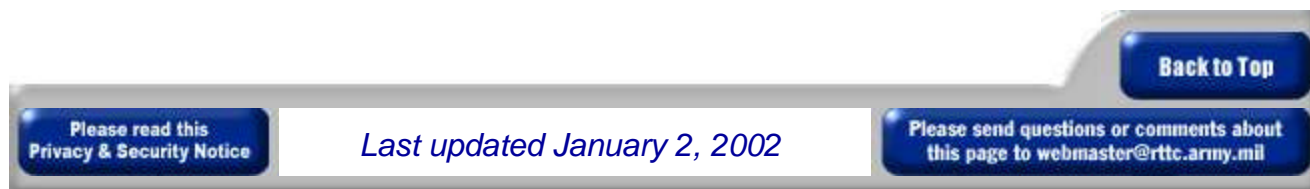


EO Laboratory



EOCCM

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